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An

IMPLEMENTATION PROGRAM

for

THE INSTALLATION OF PHOSPHORUS REMOVAL FACILITIES

at

MUNICIPAL AND INSTITUTIONAL SEWAGE TREATMENT PLANTS

in

THE PROVINCE OF ONTARIO

April 2, 1971

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Report has been up-dated since
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Environment Ontario

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125 Resources Rd.
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PHOSPHORUS-REMOVAL PROGRAM

GENERAL CRITERIA

Tables and an index are attached which list all existing and proposed municipal sewage treatment plants and several institutional plants referenced according to drainage basin and designated with 1973, 1975 or FUTURE implementation dates. Table I lists those plants having an IMMEDIATE or defined date for installation of phosphorus-removal facilities. Plants with no defined implementation date are listed in Table II and are referred to as FUTURE installations.

Both Tables are subdivided into sections (i), (ii) and (iii) in which the plants are categorized, firstly by the major drainage system in which they are located and further by sub-drainage areas. These are as follows:

Table I - IMMEDIATE

- (i) St. Clair River, Lake St. Clair, the Detroit River and Lake Erie - Direct and Indirect Discharges - 1973 Target Date.
- (ii) The Niagara River, Lake Ontario and the St. Lawrence River - Direct and Indirect Discharges - 1975 Target Date.
- (iii) Upper Great Lakes, Inland Waters and the Ottawa River System - Direct and Indirect Discharges - 1973 Target Date.

Table II - FUTURE

(i), (ii) and (iii) - same drainage areas as above. Studies will be required to determine whether phosphorus removal facilities will be required.

The established criteria on which the IMMEDIATE need has been based is four-fold:

- (a) all plants with discharge to the St. Clair-Detroit River-Lake Erie system and the Muskoka Lakes, Kawartha Lakes, Lake Simcoe and the Rideau and Trent Canal systems will require phosphorus-removal facilities by December 31, 1973;

- (b) plants with capacity of 1 million gallons per day (mgd) and larger located in the Niagara River-Lake Ontario-St. Lawrence River system have a final commencement date of December 31, 1975;
- (c) plants with capacity of 1 mgd and larger located on the Ottawa River system and in the Georgian Bay drainage area will require facilities by December 31, 1973;
- (d) plants with discharge to a watercourse upstream from a reservoir or impoundment area and those in which the discharge has created or is expected to create a local nuisance condition in the receiving water will require phosphorus removal facilities by December 31, 1973.

The 1975 implementation date for plants discharging to the Lake Ontario basin may be advanced in specific instances where biological studies show an urgent need for correction of localized algae problems.

All other plants are listed in Table II, subsections (i), (ii) and (iii). These plants are not now considered as creating nuisance conditions and the need for phosphorus-removal facilities will be dictated by the results of further biological studies. If it is determined that a specific municipality or a number of municipalities in a watershed require facilities, notification will be given three years in advance of the expected date of full-scale operation.

The Tables include proposed new plants if the sewage works program is advanced to a point where the type and capacity of the treatment works is known. Likewise, the enlarged capacities are shown for plants undergoing expansion where the new sizing has been established.

THIS LIST SUPERSEDES ALL PREVIOUS LISTS.

April 2, 1971



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Water management in Ontario

Ontario
Water Resources
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135 St. Clair Ave. W.
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IMMEDIATE IMPLEMENTATION -- TABLE I, SUB SECTION (i)

RE: PHOSPHORUS-REMOVAL PROGRAM AT MUNICIPAL SEWAGE TREATMENT PLANTS IN THE LAKE ERIE DRAINAGE BASIN

At the direction of the International Joint Commission (IJC), water-quality studies have been carried out by Canadian and United States agencies on the Lower Great Lakes system. These studies have shown that immediate corrective measures are essential if the waters of this system are to be improved and protected. As a result, the IJC has recommended that immediate action be taken to reduce to the lowest practical level the amount of phosphorus entering these waterways. The Ontario Water Resources Commission (OWRC) has endorsed this recommendation and adopted a program which will also extend phosphorus control into a great many other problem areas throughout the Province.

To a certain extent phosphorus is a highly desirable element in maintaining a proper balance between plant and animal life in water. However, excessive and prolonged discharges of phosphorus have upset this balance and created an over-abundance of algae, weeds and nuisance organisms in receiving waters. Control of these discharges will lead to the eventual restoration of a balanced system.

One of the main sources of phosphorus, and one which can be quite readily controlled, is the discharge from municipal sewage treatment plants. Municipal plants have greatly contributed to the extremely undesirable conditions which have been created in Lake Erie through direct discharges to the Lake and to streams which flow into it. As such, facilities capable of removing at least 80 per cent of the phosphorus from the incoming sewage will be necessary initially and thereafter additional treatment will be required to the maximum extent possible by economically feasible processes. December 31, 1973, has been adopted as the final date for the initial commencement of operation of these facilities in the Lake Erie basin in which your municipality is located.

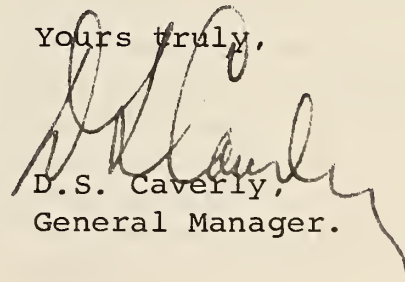
There are a number of chemicals and treatment methods which have proved satisfactory for phosphorus removal. Each particular municipal waste will have to be investigated to determine the most economical and suitable method of phosphorus removal to meet the aforementioned treatment objectives. It may be desirable in each case to carry out a pilot study and also to investigate the cost and availability of the various chemicals before recommending a specific process. These studies need not be longer than a few months in duration and the facilities will not require extensive design. There should, therefore, be no difficulty in meeting the 1973 target date for full-scale operation.

In cases where sewage treatment plants are municipally owned and operated we would suggest that a consulting engineer be retained as soon as possible to carry out the required studies. In this regard, the consultant can obtain advice from our Division of Research based upon studies which it has been carrying out over the past few years. Plants owned by the OWRC will be studied by Commission staff in conjunction with private consulting firms as individual cases may dictate.

There has been considerable publicity recently on the need for phosphorus removal and the eventual implementation of a policy. However, there may still be questions you would like to have answered and perhaps receive more information on the subject. If this is the case and there is sufficient demand we are prepared to hold information meetings in your area for municipal council members and other officials. If you would like such a meeting, please advise us by return mail with the envelope referenced in the lower left hand corner with the designation "PHOSPHORUS REMOVAL PROGRAM".

We trust that we will receive your full co-operation in this program which is so necessary for the protection of our most valuable natural resource.

Yours truly,



D.S. Caverly,
General Manager.

Encl.



Water management in Ontario

Ontario
Water Resources
Commission

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Toronto 7, Ontario
Tel. 365-5115

Office of
the
General Manager

IMMEDIATE IMPLEMENTATION -- TABLE I, SUB SECTION (ii)

RE: PHOSPHORUS-REMOVAL PROGRAM AT MUNICIPAL SEWAGE TREATMENT
PLANTS IN THE LAKE ONTARIO DRAINAGE BASIN

At the direction of the International Joint Commission (IJC), water-quality studies have been carried out by Canadian and United States agencies on the Lower Great Lakes system. These studies have shown that corrective measures are essential if the waters of this system are to be improved and protected. As a result, the IJC has recommended that action be taken to reduce to the lowest practical level the amount of phosphorus entering these waterways. The Ontario Water Resources Commission (OWRC) has endorsed this recommendation and adopted a program which will also extend phosphorus control into a great many other problem areas throughout the Province.

To a certain extent phosphorus is a highly desirable element in maintaining a proper balance between plant and animal life in water. However, excessive and prolonged discharges of phosphorus have upset this balance and created an over-abundance of algae, weeds and nuisance organisms in receiving waters. Control of these discharges will lead to the eventual restoration of a balanced system.

One of the main sources of phosphorus, and one which can be quite readily controlled, is the discharge from municipal sewage treatment plants. Municipal plants located on Lake Ontario and on streams flowing into it have created undesirable conditions in some local areas and continued discharge could result in widespread deterioration in water quality throughout the Lake. As such, facilities capable of removing at least 80 per cent of the phosphorus from the incoming sewage will be necessary initially and thereafter additional treatment will be required to the maximum extent possible by economically feasible processes. December 31, 1975, has been

adopted as the final date for the initial commencement of operation of these facilities in the Lake Ontario basin in which your municipality is located.

Studies are continuing in many areas and it is possible that your municipality will require these facilities at an earlier date. If so, you will be notified three years in advance of the date when the facilities are required to be in operation. In the event that plant modifications are undertaken prior to 1975, then the new facilities will be expected to incorporate phosphorus removal equipment.

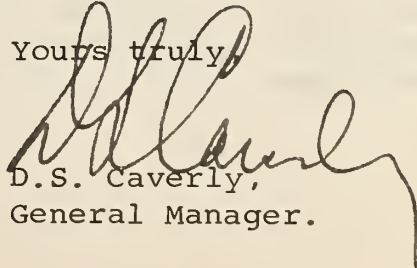
There are a number of chemicals and treatment methods which have proved satisfactory for phosphorus removal. Each particular municipal waste will have to be investigated to determine the most economical and suitable method of phosphorus removal to meet the aforementioned treatment objectives. It may be desirable in each case to carry out a pilot study and also to investigate the cost and availability of the various chemicals before recommending a specific process.

In cases where sewage treatment plants are municipally owned and operated we would suggest that a consulting engineer be retained at an early date to carry out the required studies. In this regard, the consultant can obtain advice from our Division of Research based upon studies which it has been carrying out over the past few years. Plants owned by the OWRC will be studied by Commission staff in conjunction with private consulting firms as individual cases may dictate.

There has been considerable publicity recently on the need for phosphorus removal and the eventual implementation of a policy. However, there may still be questions you would like to have answered and perhaps receive more information on the subject. If this is the case and there is sufficient demand we are prepared to hold information meetings in your area for municipal council members and other officials. If you would like such a meeting, please advise us by return mail with the envelope referenced in the lower left hand corner with the designation "PHOSPHORUS REMOVAL PROGRAM".

We trust that we will receive your full co-operation in this program which is so necessary for the protection of our most valuable natural resource.

Yours truly,


D.S. Caverly,
General Manager.

Encl.



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IMMEDIATE IMPLEMENTATION -- TABLE I, SUB SECTION (iii)

RE: PHOSPHORUS-REMOVAL PROGRAM AT MUNICIPAL SEWAGE TREATMENT
PLANTS ON THE UPPER GREAT LAKES, INLAND WATERS AND THE
OTTAWA RIVER SYSTEM

The Ontario Water Resources Commission (OWRC) has been taking part in extensive water-quality studies in co-operation with other agencies in the Lower Great Lakes drainage system. At the same time, it has regularly surveyed recreational-area waters, Lake Huron, the Ottawa River watershed and other lakes and rivers not considered as directly influencing the Lower Great Lakes system. The studies have shown water quality deterioration in many areas. In order to correct these undesirable conditions and protect other waters the OWRC has adopted a program of phosphorus control intended to reduce to the lowest practical level the entry of this substance into our waterways.

To a certain extent phosphorus is a highly desirable element in maintaining a proper balance between plant and animal life in water. However, excessive and prolonged discharges of phosphorus have upset this balance and created an over-abundance of algae, weeds and nuisance organisms in receiving waters. Control of these discharges will lead to the eventual restoration of a balanced system.

One of the main sources of phosphorus, and one which can be quite readily controlled, is the discharge from municipal sewage treatment plants. Since your municipality is located in a critical area, facilities capable of removing at least 80 per cent of the phosphorus from the incoming sewage will be necessary initially and thereafter additional treatment will be required to the maximum extent possible by economically feasible processes. December 31, 1973, has been adopted as the final date for the initial commencement of operation of these facilities.

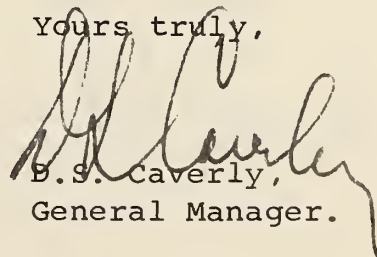
There are a number of chemicals and treatment methods which have proved satisfactory for phosphorus removal. Each particular municipal waste will have to be investigated to determine the most economical and suitable method of phosphorus removal to meet the aforementioned treatment objectives. It may be desirable in each case to carry out a pilot study and also to investigate the cost and availability of the various chemicals before recommending a specific process. These studies need not be longer than a few months in duration and the facilities will not require extensive design. There should, therefore, be no difficulty in meeting the 1973 target date for full-scale operation.

In cases where sewage treatment plants are municipally owned and operated we would suggest that a consulting engineer be retained as soon as possible to carry out the required studies. In this regard, the consultant can obtain advice from our Division of Research based upon studies which it has been carrying out over the past few years. Plants owned by the OWRC will be studied by Commission staff in conjunction with private consulting firms as individual cases may dictate.

There has been considerable publicity recently on the need for phosphorus removal and the eventual implementation of a policy. However, there may still be questions you would like to have answered and perhaps receive more information on the subject. If this is the case and there is sufficient demand we are prepared to hold information meetings in your area for municipal council members and other officials. If you would like such a meeting, please advise us by return mail with the envelope referenced in the lower left hand corner with the designation "PHOSPHORUS REMOVAL PROGRAM".

We trust that we will receive your full co-operation in this program which is so necessary for the protection of our most valuable natural resource.

Yours truly,



B.S. Caverly,
General Manager.

Encl.



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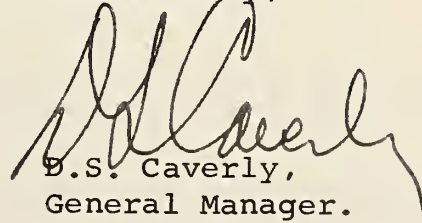
FUTURE IMPLEMENTATION -- TABLE II, SUB SECTIONS (i), (ii), (iii)

RE: PHOSPHORUS-REMOVAL PROGRAM AT MUNICIPAL SEWAGE
TREATMENT PLANTS

Many municipalities throughout the Province have been advised that they will be required to install phosphorus-removal facilities at their municipal sewage treatment plants. These municipalities are in areas where the discharges have led to water-quality deterioration.

Your municipality is in an area where deterioration in water quality through phosphorus discharges has not, to date, been clearly documented. As such, phosphorus-removal facilities will not be required at the present time. In the event that future studies or those now in progress indicate the need for these facilities, you will be so notified three years in advance of the date when they are expected to be in operation.

Yours truly,



D.S. Caverly,
General Manager.

PHOSPHORUS REMOVAL PROGRAM - IMPLEMENTATION DATES

TABLE I - LIST OF MUNICIPALITIES REQUIRING
 PHOSPHORUS REMOVAL FACILITIES
 "IMMEDIATELY"

TABLE II - LIST OF MUNICIPALITIES WHERE STUDIES
 WILL DETERMINE THE NEED FOR PHOSPHORUS
 REMOVAL FACILITIES AT A "FUTURE DATE"

SYMBOL IDENTIFICATION

P	-	primary treatment plant	*	-	provincial project
S	-	secondary treatment plant	**	-	OWRC plant
L(-ac)	-	lagoon (acreage)	***	-	Prop. regional plant
AL	-	aerated lagoon	(e)	-	estimated
TF	-	trickling filter	SF	-	sand filter
ST	-	septic tank			
T	-	tertiary treatment plant			
An.L	-	anerobic lagoon			

In most cases where existing plants are proposed for expansion or new plants are being designed, the proposed capacity is shown in the Tables.

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<u>MUNICIPALITY</u>	<u>TABLE NO.</u>	<u>PRIORITY</u>	<u>PAGE NO.</u>
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Alfred (Village)	11 (iii)	Future	22
Alliston (Town)	11 (iii)	Future	21
Almonte (Town)	11 (iii)	Future	21
Amherstburg (Town)	1 (i)	1973	1
Anson, Hindon & Minden (Twp.)	1 (iii)	1973	10
Armstrong (Twp.)	11 (iii)	Future	22
Arnprior (Town)	1 (iii)	1973	13
Arthur (Village)	1 (i)	1973	5
Assiginack (Twp.)	11 (iii)	Future	18
Atikokan (Twp.)	11 (iii)	Future	23
Aurora (Town)	1 (iii)	1973	12
Aylmer (Town)	1 (i)	1973	4

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Bala (Muskoka Lakes Twp.)	1 (iii)	1973	11
Balfour (Twp.)	11 (iii)	Future	20
Balmertown (Imp. District)	11 (iii)	Future	24
Bancroft (Village)	11 (iii)	Future	21
Barrie (City)	1 (iii)	1973	11
Barry's Bay (Village)	1 (iii)	1973	12
Bath (Village)	11 (ii)	Future	15
Beardmore (Imp. District)	11 (iii)	Future	23
Beaverton (Village)	1 (iii)	1973	12
Beeton (Village)	11 (iii)	Future	21
Belle River (Town)	1 (i)	1973	1
Belleville (City)	1 (ii)	1975	7
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Bicroft (Imp. District)	1 (iii)	1973	10
Black River - Matheson (Twp.)	11 (iii)	Future	24
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Cannington (Village)	1 (iii)	1973	12
Capreol (Town)	11 (iii)	Future	20
Cardiff (Bicroft Imp. District)	1 (iii)	1973	10
Cardinal (Village)	11 (ii)	Future	15
Carleton Place (Town)	1 (iii)	1973	12
Casselman (Village)	11 (iii)	Future	22
Cavan (Twp.) - Ontario Reformatory	1 (iii)	1973	10
Cayuga (Village)	1 (i)	1973	5
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Chapleau (Twp.)	11 (iii)	Future	24
Chatham (City)	1 (i)	1973	2
Chesley (Town)	11 (iii)	Future	19
Chesterville (Village)	11 (iii)	Future	22
Clinton (Town)	11 (iii)	Future	19
Cobalt (Town)	11 (iii)	Future	22
Cobden (Village)	11 (iii)	Future	21
Cobourg (Town)	1 (ii)	1975	8
Cochrane (Town)	11 (iii)	Future	24
Colbourne (Village)	11 (ii)	Future	16
Coldwater (Village)	11 (iii)	Future	21
Collingwood (Town)	1 (iii)	1973	9
Coniston (Town)	11 (iii)	Future	20
Copper Cliff (Town)	11 (iii)	Future	20
Cornwall (City)	1 (ii)	1975	7
Cornwall (Twp.)	11 (ii)	Future	15
Courtright (Village)	1 (i)	1973	1
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Dundalk (Village)	1 (i)	1973	5
Dundas (Town)	1 (ii)	1975	8
Dunnville (Town)	1 (i)	1973	5
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Dutton (Village)	1 (i)	1973	3
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Fauquier (Twp.)	11 (iii)	Future	24
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Glencoe (Village)	1 (i)	1973	3
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Kenora (Town)	11 (iii)	Future	23
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Lincoln (Town) - Beamsville	11 (ii)	Future	15
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Marmora (Village)	1 (iii)	1973	10
Massey (Town)	11 (iii)	Future	20
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Meaford (Town)	11 (iii)	Future	18
Merrickville (Village)	1 (iii)	1973	12
Michipicoten (Twp.) Wawa	11 (iii)	Future	23
Midland (Town)	1 (iii)	1973	9
Mildmay (Village)	11 (iii)	Future	19
Millbrook (Village)	1 (iii)	1973	10
Milton (Town)	1 (ii)	1975	8
Milverton (Village)	11 (iii)	Future	20
Mississauga (Town)	1 (ii)	1975	6
Mitchell (Town)	1 (i)	1973	2
Moore (Twp.)	1 (i)	1973	1
Morrisburg (Village)	11 (ii)	Future	15
Mount Forest (Town)	1 (iii)	1973	11
Muskoka Lakes (Twp.) Bala	1 (iii)	1973	11
Port Carling	1 (iii)	1973	11
- N -			
Napanee (Town)	1 (ii)	1975	8
Neelon & Garson (Twp.)	11 (iii)	Future	20
Nepean (Twp.)	1 (iii)	1973	13
Neustadt (Village)	11 (iii)	Future	19
Newburgh (Village)	11 (ii)	Future	16
Newcastle (Village)	11 (ii)	Future	15
New Hamburg (Town)	1 (i)	1973	5
New Liskeard (Town)	11 (iii)	Future	22
Newmarket (Town)	1 (iii)	1973	11
Niagara Falls (City)	1 (ii)	1975	6
Niagara-on-the-Lake (Town)	11 (ii)	Future	15
Nipigon (Twp.)	11 (iii)	Future	23
North Bay (City)	1 (iii)	1973	12
Norwich (Village)	1 (i)	1973	4
Norwood (Village)	1 (iii)	1973	10

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<u>MUNICIPALITY</u>	<u>TABLE NO.</u>	<u>PRIORITY</u>	<u>PAGE NO.</u>
Oakville (Town)			
Trafalgar & East End	1 (ii)	1975	6
Oakville (Town) -			
Navy Street	1 (ii)	1975	7
Oakville (Town) - Ford Motor Co.	11 (ii)	Future	16
Oil Springs (Village)	1 (i)	1973	3
Oliver (Twp.)	11 (iii)	Future	22
Omeme (Village)	1 (iii)	1973	10
Onaping (Imp. District)	11 (iii)	Future	20
Orangeville (Town)	1 (ii)	1975	7
Orillia (City)	1 (iii)	1973	11
Oshawa (City)	1 (ii)	1975	8
Osnabruck (Twp.)	11 (ii)	Future	15
Ottawa (City)	1 (iii)	1973	9
Ottawa (City) - Uplands Canadian			
Forces Base	1 (iii)	1973	12
Owen Sound (City)	1 (iii)	1973	9

- P -

Paisley (Village)	11 (iii)	Future	19
Palmerston (Town)	11 (iii)	Future	20
Paris (Town)	1 (i)	1973	5
Parry Sound (Town)	1 (iii)	1973	9
Pembroke (Town)	1 (iii)	1973	13
Penetanguishene (Town)	1 (iii)	1973	9
Penetanguishene (Town)			
- Ontario Hospital	1 (iii)	1973	9
Perth (Town)	1 (iii)	1973	12
Petawawa (Village)	1 (iii)	1973	9
Petawawa (Village) - Canadian			
Forces Base	1 (iii)	1973	9
Peterborough (City)	1 (iii)	1973	10
Petrolia (Town)	1 (i)	1973	3
Pickering (Village)	11 (ii)	Future	16
Pickering (Twp.)	1 (ii)	1975	6
Picton (Town)	1 (ii)	1975	7
Plantagenet (Village)	11 (iii)	Future	22
Playfair (Twp.)			
Ramore	11 (iii)	Future	24
Point Edward (Village)	1 (i)	1973	1
Port Carling (Muskoka Lakes Twp.)	1 (iii)	1973	11
Port Colborne (City)	1 (ii)	1975	7
Port Dover (Town)	1 (i)	1973	2
Port Elgin (Town)	11 (iii)	Future	19
Port Hope (Town)	1 (ii)	1975	7
Port McNicoll (Village)	1 (iii)	1973	9

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<u>Municipality</u>	<u>Table No.</u>	<u>Priority</u>	<u>Page No.</u>
Port Perry (Village)	1 (iii)	1973	10
Port Rowan (Village)	1 (i)	1973	1
Port Stanley (Village)	1 (i)	1973	2
Powassan (Town)	11 (iii)	Future	20
Prescott (Separated Town)	1 (ii)	1975	7
Preston (Town)	1 (i)	1973	4
- R -			
Rainy River (Town)	11 (iii)	Future	23
Raleigh (Twp.)- Ontario Hosp.	1 (i)	1973	1
Raleigh & Tilbury East (Twps.) P.V. of Merlin	1 (i)	1973	3
Rayside (Twp.) Azilda	11 (iii)	Future	20
Red Lake (Twp.)	11 (iii)	Future	24
Renfrew (Town)	1 (iii)	1973	13
Richmond (Village)	1 (iii)	1973	12
Richmond Hill (Town)	1 (ii)	1975	8
Ridgetown (Town)	1 (i)	1973	3
Rockland (Town)	11 (iii)	Future	18
Rodney (Village)	1 (i)	1973	3
- S -			
St. Catharines (City)	1 (ii)	1975	6
St. Isidore de Prescott (Village)	11 (iii)	Future	22
St. Marys (Separated Town)	1 (i)	1973	2
St. Thomas (City)	1 (i)	1973	4
Sarnia (City)	1 (i)	1973	1
Sarnia (Twp.) Bright's Grove	11 (iii)	Future	19
Sault Ste. Marie (City)	11 (iii)	Future	18
Schreiber (Twp.)	11 (iii)	Future	18
Seaforth (Town)	11 (iii)	Future	19
Shackleton & Machin (Twp.) Fauquier	11 (iii)	Future	24
Shelburne (Village)	11 (iii)	Future	21
Sherborne, McClintock and Livingstone (Twp.)	1 (iii)	1973	10
Sidney (Twp.) Battawa	1 (iii)	1973	9
Simcoe (Town)	1 (i)	1973	4
Sioux Lookout (Town)	11 (iii)	Future	23
Smiths Falls (Separated Town)	1 (iii)	1973	12
Smithville (West Lincoln Twp.)	11 (ii)	Future	16

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<u>MUNICIPALITY</u>	<u>TABLE NO.</u>	<u>PRIORITY</u>	<u>PAGE NO.</u>
Smooth Rock Falls (Town)	11 (iii)	Future	24
Sombra (Twp.)			
P.V. of Sombra	1 (i)	1973	1
P.V. of Port Lambton	1 (i)	1973	1
Southampton (Town)	11 (iii)	Future	19
South River (Village)	11 (iii)	Future	21
Stayner (Town)	11 (iii)	Future	21
Stirling (Village)	1 (iii)	1973	10
Stouffville (Whitchurch- Stouffville Town)	1 (ii)	1975	8
Stratford (City)	1 (i)	1973	2
Strathroy (Town)	1 (i)	1973	3
Sturgeon Falls (Town)	11 (iii)	Future	21
Sudbury (City)	11 (iii)	Future	20
Sundridge (Village)	1 (iii)	1973	12
Sutton (Georgina Twp.)	1 (iii)	1973	11
- T -			
Tavistock (Village)	1 (i)	1973	2
Teck (Twp.)			
Kirkland Lake	1 (iii)	1973	13
Terrace Bay (Twp.)	11 (iii)	Future	23
Thamesville (Village)	1 (i)	1973	3
Thessalon (Town)	11 (iii)	Future	18
Thornbury (Town)	11 (iii)	Future	18
Thunder Bay (City)			
Port Arthur & Fort William	11 (iii)	Future	22
Tilbury (Town)	1 (i)	1973	2
Tilbury East & Raleigh (Twps.)			
P.V. of Merlin	1 (i)	1973	3
Tilbury North (Twp.)			
P.V. of Stoney Point	1 (i)	1973	1
Tilbury West (Twp.)			
P.V. of Comber	1 (i)	1973	2
Tillsonburg (Town)	1 (i)	1973	4
Timmins (Town)	11 (iii)	Future	24
Tisdale (Twp.)	11 (iii)	Future	24
Metropolitan Toronto			
Humber, Long Branch & Main	1 (ii)	1975	6
Metropolitan Toronto			
North Toronto & Scarborough	1 (ii)	1975	8
Tottenham (Village)	11 (iii)	Future	21
Trenton (Separated Town)	1 (ii)	1975	7
Trenton (Separated Town)			
- Canadian Forces Base	1 (ii)	1975	7
Tweed (Village)	1 (iii)	1973	11

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<u>MUNICIPALITY</u>	<u>TABLE NO.</u>	<u>PRIORITY</u>	<u>PAGE NO.</u>
Uxbridge (Town)	1 (iii)	1973	11
- V -			
Valley East (Twp.)	11 (iii)	Future	20
Vankleek Hill (Town)	11 (iii)	Future	21
Vaughan (Town)			
West Don	1 (ii)	1975	8
Vaughan (Town)			
Kleinburg	11 (ii)	Future	16
- W -			
Walkerton (Town)	11 (iii)	Future	19
Wallaceburg (Town)	1 (i)	1973	3
Waterdown (Village)	11 (ii)	Future	16
Waterford (Town)	1 (i)	1973	4
Waterloo (City)	1 (i)	1973	4
Watford (Village)	1 (i)	1973	3
Webbwood (Town)	11 (iii)	Future	20
Welland (City)	1 (ii)	1975	7
Wellesley (Village)	1 (i)	1973	5
Wellington (Village)	11 (ii)	Future	15
West Lincoln (Twp.)			
Smithville	11 (ii)	Future	16
West Lorne (Village)	1 (i)	1973	3
Westminster (Twp.)	1 (i)	1973	2
Westport (Village)	1 (iii)	1973	12
Wheatley (Village)	1 (i)	1973	3
Whitby (Town)			
Corbett Creek	1 (ii)	1975	6
Whitby (Town)			
Municipal	1 (ii)	1975	8
Whitby (Town)			
-Ontario Hospital	11 (ii)	Future	15
Whitchurch-Stouffville (Town)			
Stouffville	I (ii)	1975	8
Whitney (Twp.)	11 (iii)	Future	24
Wiarton (Town)	11 (iii)	Future	18
Wilmot (Twp.)			
P.V. of Baden	1 (i)	1973	5
Winchester (Village)	11 (iii)	Future	21
Windsor (City)	1 (i)	1973	1
Wingham (Town)	11 (iii)	Future	20
Woodstock (City)	1 (i)	1973	2
Woolwich (Twp.)			
P.V. of St. Jacobs	1 (i)	1973	5
- Z -			
Zurich (Village)	11 (iii)	Future	19

TABLE IMUNICIPALITIES REQUIRING PHOSPHORUS REMOVAL FACILITIES IMMEDIATELY

(i) ST. CLAIR RIVER, LAKE ST. CLAIR, THE DETROIT RIVER AND
LAKE ERIE - DIRECT AND INDIRECT DISCHARGES
- 1973 TARGET DATE

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
<u>DIRECT DISCHARGES</u>		
St. Clair - Detroit River System	City of Sarnia	P 8.0
	City of Windsor	
	West End	P 24.0
	Little River	S 4.0
	Town of Amherstburg	P 1.0
	Village of Point Edward **	P 0.57
	Township of Moore	
	P.V. of Corunna **	S 0.32
	Village of Courtright *	S 0.15
	Township of Sombra	
	P.V. of Sombra *	L 13.5-ac
	P.V. of Port Lambton *	L 15-ac
	Township of North Tilbury	
	P.V. of Stoney Point *	L 10-ac
Lake Erie	Town of Belle River *	S 0.4
	Town of Leamington	P 2.0
	Village of Port Rowan *	L 21-ac
	Ontario Hospital Township of Raleigh	S 0.5

TABLE I (i) (CONT'D)

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
<hr/>		
Lake Erie (cont'd)	Village of Port Stanley *	L 40-ac
	Town of Port Dover *	P 2.09
	Town of Fort Erie Crystal Beach	S 0.85
<u>INDIRECT DISCHARGES</u>		
St. Clair - Detroit River System	Twp. of North Gosfield P.V. of Cottam *	L 10-ac
	Twp. of West Tilbury P.V. of Comber *	L 10-ac
Thames River	City of Chatham **	S 4.5
	Town of St. Marys *	S 0.8
	City of London	
	Adelaide	S 2.0
	Greenway	S 8.3
	Oxford	S 1.5
	Pottersburg	S 4.0
	Vauxhall	S 5.0
	City of Stratford *	S 6.0
	City of Woodstock	S 4.5
	Town of Ingersoll *	S 2.25
	Town of Tilbury	L 36-ac
	Twp. of Westminster **	S 0.25
	Town of Mitchell **	L 67-ac
	Village of Tavistock **	L 30-ac

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
<hr/>		
St. Clair-Detroit River System (cont'd)		
Thames River (cont'd)	Town of Bothwell *	L 15-ac (e)
	Town of Ridgetown *	L 39.5-ac
	Village of Thamesville *	S 0.15 (e)
	Village of Glencoe *	L 15-ac
Canard River	Town of Essex *	L 58-ac
Sydenham River	Town of Wallaceburg *	S 1.5
	Town of Dresden *	S 1.0
	Town of Petrolia *	L 35-ac
	Town of Strathroy	L 60-ac
	Village of Watford *	L 25.5-ac
	Village of Oil Springs *	L 8-ac
Lake Erie		
Local Tributary	Village of Dutton *	L 10-ac
	Village of Rodney *	L 17-ac
	Village of West Lorne *	L 20-ac
	Village of Wheatley *	L 13.5-ac
	Twps. of Raleigh and Tilbury East	
	P.V. of Merlin *	L 13.5-ac

TABLE I (i) (CONT'D)

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Lake Erie (cont'd)		
Lynn River	Town of Simcoe **	S 3.4
Kettle Creek	City of St. Thomas	S 3.6
	Village of Belmont *	L 16-ac
Big Otter Creek	Town of Tillsonburg *	S 1.8
Nanticoke Creek	Town of Waterford *	L 15-ac
Sandusk Creek	Village of Hagersville **	S 0.20
	Village of Jarvis	L 14-ac
Big Creek	Town of Delhi	S 0.6
Catfish Creek	Town of Aylmer **	L 72-ac
Otter Creek	Village of Norwich *	L 15-ac
Cedar Creek	Town of Harrow *	L 30-ac
Mill Creek	Town of Kingsville	L 43-ac
Grand River	City of Galt *	S 8.5
	City of Kitchener **	S 13.5
	City of Waterloo **	S 6.0
	Town of Hespeler *	S 1.6
	Town of Preston *	S 3.7
	City of Brantford **	S 12.5
	Township of Eramosa *	S + T 0.17
	City of Guelph	S 10.0

TABLE I (i) (CONT'D)

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Lake Erie (cont'd)		
Grand River (cont'd)	Town of Fergus **	S 1.0
	Village of Arthur *	L 10-ac
	Town of Dunnville	S 1.7
	Village of Cayuga *	S 0.20
	Village of Elora **	S 0.083
	Town of Caledonia	S 0.25
	Town of New Hamburg **	L 27.5-ac
	Town of Paris **	S 0.5
	Town of Elmira **	S 0.68
	Twp. of Dumfries South P.V. of St. George *	L 24-ac
	Village of Dundalk *	L 16-ac
	Village of Wellesley *	S 0.12
	Township of Wilmot P.V. of Baden *	S 0.225
	Township of Woolwich P.V. of St. Jacobs *	S 0.211
	Village of Drayton *	L 10-ac
	Village of Grand Valley *	S 0.13

TABLE IMUNICIPALITIES REQUIRING PHOSPHORUS REMOVAL FACILITIES IMMEDIATELY

(ii) THE NIAGARA RIVER, LAKE ONTARIO AND THE ST. LAWRENCE
RIVER - DIRECT AND INDIRECT DISCHARGES
- 1975 TARGET DATE

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
<u>DIRECT DISCHARGES</u>		
Niagara River	Town of Fort Erie *	P 1.8
	City of Niagara Falls	
	Stamford	P 10.0
	Chippawa	S 0.3
Lake Ontario	City of St. Catharines	
	Port Weller	P 8.25
	Port Dalhousie	P 9.00
	City of Hamilton *	S 60.00
	Town of Burlington **	
	Skyway	S 6.00
	Drury Lane	S 2.50
	Elizabeth Gardens	S 0.75
	Town of Oakville	
	Trafalgar	S 6.50
	East End	S 2.0
	Town of Mississauga **	
	Clarkson Peel ***	S 2.25
	Lakeview	S 37.0
	Metro Toronto	
	Humber	S 75.00
	Long Branch	S 0.75
	Main	S180.00
	Township of Pickering *	
	Bay Ridges	S 2.50
	Town of Whitby	
	Corbett Creek ***	S 3.00

TABLE I (ii) (CONT'D)

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Lake Ontario (cont'd)	Town of Port Hope	S 2.00
	Town of Trenton	
	Municipal *	P 3.5
	Canadian Forces Base	S 0.80
	City of Belleville *	S 8.00
	Town of Picton	S 0.54
St. Lawrence River	Township of Kingston **	S 2.2
	City of Kingston	P 13.5
	City of Brockville	P 3.75
	City of Cornwall *	P 8.0
	S.T. of Prescott *	P 1.0
<u>INDIRECT DISCHARGES</u>		
Niagara River		
Welland River	City of Welland	P 8.0
Lake Ontario		
Welland Canal	City of Port Colborne	
	East Side	S 0.85
	West Side **	S 0.90
Credit River	Town of Orangeville *	S 0.75
	Town of Georgetown **	S 1.5
	Town of Acton	S 0.62
Oakville Creek	Town of Oakville	
	Navy Street	S 0.75

TABLE I (ii) (CONT'D)

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Lake Ontario (cont'd)		
Oakville Creek	Town of Milton	S 1.0
, Des Jardin Canal	Town of Dundas	S 1.25
Don River	Metro Toronto North Toronto	S 7.5
	Town of Vaughan West Don	S 0.33
	Town of Markham ** John Street	S 0.75
	Town of Richmond Hill **	S 1.6
Highland Creek	Metro Toronto Scarborough	S 16.0
Humber River	Village of Bolton	S 0.5
Rouge River	Town of Markham ** Old Town Unionville	S 1.0 S + L 0.4
Duffin Creek	Town of Ajax	S 2.50
	Town of Whitchurch-Stouffville Stouffville	S 0.45
Pringle Creek	Town of Whitby Municipal	S 3.25
Oshawa Creek	City of Oshawa	P + S 12.5
Bowmanville Creek	Town of Bowmanville	S 1.5
Cobourg Brook	Town of Cobourg	S 3.53
Napanee River	Town of Napanee *	P 1.5

Appendix A

Date	Description	Amount
1/1/19	Balance forward	100.00
1/15/19	Cash on hand	50.00
2/1/19	Cash on hand	25.00
2/15/19	Cash on hand	15.00
3/1/19	Cash on hand	10.00
3/15/19	Cash on hand	5.00
3/31/19	Cash on hand	2.50
4/1/19	Cash on hand	1.25
4/15/19	Cash on hand	0.62
4/30/19	Cash on hand	0.31
5/1/19	Cash on hand	0.16
5/15/19	Cash on hand	0.08
5/31/19	Cash on hand	0.04
6/1/19	Cash on hand	0.02
6/15/19	Cash on hand	0.01
6/30/19	Cash on hand	0.00

MUNICIPALITIES REQUIRING PHOSPHORUS REMOVAL FACILITIES IMMEDIATELY

(iii) UPPER GREAT LAKES, INLAND WATERS AND THE
OTTAWA RIVER SYSTEM - DIRECT AND INDIRECT
DISCHARGES - 1973 TARGET DATE

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
<u>DIRECT DISCHARGES</u>		
Georgian Bay	City of Owen Sound **	P 3.0
	Town of Collingwood	P 4.0
	Village of Port McNicoll *	S 0.23
Parry Sound	Town of Parry Sound *	P 0.9
Penetang Bay	Town of Penetanguishene	S 0.33
	Ontario Hospital (Penetanguishene)	S 0.12
Midland Bay	Town of Midland **	P 1.25
Ottawa River	City of Ottawa	P 40.0
	Town of Hawkesbury *	S 2.7
	Village of Petawawa and Canadian Forces Base *	P 2.8
<u>INDIRECT DISCHARGES</u>		
Lake Ontario		
Trent River	Village of Frankford *	S 0.30
	Village of Hastings *	S 0.116
	Township of Sidney Battawa **	S 0.12
	Town of Campbellford *	S 0.75

TABLE I (iii) (CONT'D)

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Lake Ontario (cont'd)		
Rawdon Creek	Village of Stirling *	L 12.6-ac
Crowe River	Village of Marmora *	S 0.14
Nora Lake	Tw. of Sherborne, McClintock & Livingstone	S 0.1
Gull River	Tw. of Anson, Hindon & Minden *	L 10-ac
Baxter Creek	Village of Millbrook *	S 0.13
	Ontario Reformatory Cavan Township	S 0.04
Piegon River	Village of Omemee *	L 20-ac
Plato Creek	Village of Havelock *	L 16-ac
Sturgeon Lake	Village of Fenelon Falls *	S 0.22
Ouse River	Village of Norwood *	S 0.15
Scugog River	Town of Lindsay **	L 111-ac
Scugog Lake	Village of Port Perry *	L 45-ac
Salt Creek	Warkworth Institute Brighton Township	S 0.08
Pigeon Lake	Village of Bobcaygeon *	S 0.25
Otonabee River	Village of Lakefield *	L 24-ac
	City of Peterborough *	P 12.0
Head Lake	Tw. of Dysart et al Haliburton *	S 0.12
Mink Creek	Imp. District of Bicroft Cardiff Townsite	L 10-ac

TABLE I (iii) (CONT'D)

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Lake Ontario (cont'd)		
Millhaven Creek	Twp. of Loughborough Sydenham *	S 0.166
Moirs Lake	Village of Madoc *	L 30-ac
Stoco Lake	Village of Tweed **	L 24-ac
Lake Huron		
Maitland River	Town of Listowel **	L 70-ac
Saugeen River	Town of Mount Forest	S 0.3
Georgian Bay		
Long Lake	Twp. of Muskoka Lakes Bala	ST + SF
Muskoka Lake	Town of Gravenhurst	S 0.45
	Ontario Hospital (Gravenhurst)	S 0.07
Muskoka River	Town of Huntsville *	S 0.25
	Town of Bracebridge **	L 32.5-ac
Indian River	Twp. of Muskoka Lakes * Port Carling	L 10-ac
Stewart Lake	Twp. of Georgian Bay MacTier *	S 0.15
Lake Couchiching	City of Orillia	S 4.0
Pefferlaw Creek	Town of Uxbridge	TF 0.48
Holland River	Town of Newmarket **	S 2.0
Black River	Township of Georgina ** Sutton	L 16-ac
Kempfenfeldt Bay	City of Barrie	S 3.0

TABLE I (iii) CONT'D

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Georgian Bay (cont'd)		
Aurora Creek	Town of Aurora	S 1.83
Schomberg River	Town of Bradford *	S 0.8
Lake Simcoe	Village of Beaverton *	L 28-ac
Beaverton River	Village of Cannington *	L 27.7-ac
Lake Bernard	Village of Sundridge *	L 10-ac
Lake Nipissing	City of North Bay *	S 8.0
Ottawa River		
Mississippi River	Town of Carleton Place *	S 1.2
Rideau River	Village of Merrickville *	S 0.04
	Town of Smiths Falls	P 2.0
	Town of Perth	L 80-ac
	Rideau Industrial Farm Marlborough Township	S 0.044
	Uplands Canadian Forces Base (Ottawa)	S 0.5
Kemptville Creek	Town of Kemptville *	P 0.5
Jock River	Village of Richmond *	L 10-ac
Upper Rideau Lake	Village of Westport *	L 8-ac
Kamaniskeg Lake	Village of Barry's Bay *	S 0.21

THE NEW YORK PUBLIC LIBRARY

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1893	H. J. Prentiss	The New York Public Library
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1902	H. J. Prentiss	The New York Public Library
1903	H. J. Prentiss	The New York Public Library
1904	H. J. Prentiss	The New York Public Library
1905	H. J. Prentiss	The New York Public Library

TABLE I (iii) CONT'D

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
<hr/>		
Ottawa River (cont'd)		
Watts Creek	Township of Nepean **	S 8.0
Golden Lake	Village of Killaloe Station *	L 11.2-ac
Madawaska River	Town of Arnprior	P 1.5
	Town of Pembroke	P 2.5
Bonnechere River	Town of Renfrew	P 1.9
Murdock Creek and Blanche River	Township of Teck * Kirkland Lake	S 3.0

TABLE IIMUNICIPALITIES WHERE STUDIES WILL DETERMINE NEED FOR PHOSPHORUS
REMOVAL FACILITIES

(i) ST. CLAIR RIVER, LAKE ST. CLAIR, THE DETROIT RIVER
AND LAKE ERIE - DIRECT AND INDIRECT DISCHARGES

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
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- ALL PLANTS ARE INCLUDED IN TABLE I (i) WITH A
1973 TARGET DATE. -

TABLE IIMUNICIPALITIES WHERE STUDIES WILL DETERMINE NEED FOR PHOSPHORUS
REMOVAL FACILITIES

(ii) THE NIAGARA RIVER, LAKE ONTARIO AND THE
ST. LAWRENCE RIVER - DIRECT AND
INDIRECT DISCHARGES

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
<u>DIRECT DISCHARGES</u>		
Lake Ontario	Town of Niagara-on-the-Lake **	L 32.4-ac
	Town of Lincoln *** Beamsville	S 0.50
	Town of Grimsby *** Grimsby Beach West End Lagoon	TF 0.05 AL 5.9-ac
	Ontario Hospital Town of Whitby	S 0.43
	Village of Wellington *	L 21-ac
	Town of Deseronto *	S 0.30
	Village of Bath *	S 0.26
	Village of Newcastle *	S 0.28
	Village of Cardinal *	S 0.33
	Village of Iroquois	P 0.45
St. Lawrence River	Village of Morrisburg	P + L 0.50
	Twp. of Elizabethtown	ST 0.01
	Twp. of Osnabruck Ingleside	P 0.30
	Twp. of Cornwall Long Sault	S 0.30

TABLE II (ii) (CONT'D)

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
<hr/>		
INDIRECT DISCHARGES		
Lake Ontario		
20 Mile Creek	Tw. of West Lincoln Smithville **	L 8.5-ac
40 Mile Creek	Town of Grimsby *** Main Plant	S 0.35
Credit River	Village of Erin *	L 18-ac (e)
Humber River	Town of Vaughan Kleinburg	S 0.05
Local Tributary	Town of Oakville Ford Motor Company	S 0.55
Grindstone Creek	Village of Waterdown *	S 0.3
Duffin Creek	Village of Pickering *	S 0.4
Colborne Creek	Village of Colborne	L 8-ac
Butler Creek	Village of Brighton **	L 13.6-ac
Moirs River	Village of Deloro	Septic Tank
Napanee River	Township of Ernestown Amherstview **	L 30-ac
	Village of Newburgh *	S 0.07
Millhaven Creek	Township of Ernestown Odessa *	L 13-ac (e)

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Lake Ontario (cont'd)		
Gananoque River	Town of Gananoque **	L 70-ac
St. Lawrence River	Twp. of Leeds and Lansdowne Front of **	L 8-ac (e)
	Village of Lancaster *	L 8.3-ac
Delisle River	Town of Alexandria **	L 42-ac

MUNICIPALITIES WHERE STUDIES WILL DETERMINE NEED FOR PHOSPHORUS
REMOVAL FACILITIES

(iii) LAKE HURON, GEORGIAN BAY, THE OTTAWA RIVER SYSTEM,
ST. MARY'S RIVER, LAKE SUPERIOR AND HUDSON'S BAY
- DIRECT AND INDIRECT DISCHARGES

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
<u>DIRECT DISCHARGES</u>		
Lake Huron	Town of Goderich	S 1.0
North Channel	Town of Bruce Mines *	L 6.4-ac
	Town of Thessalon *	S 0.3
Georgian Bay	Town of Kincardine **	L 32-ac
	Town of Thornbury *	AL 20-ac
	Town of Wiarton **	L 15-ac
	Town of Meaford *	S 0.86
	Town of Little Current **	L 10-ac
	Township of Assiginack *	L 7.3-ac
Ottawa River	Township of Cumberland **	P 0.8
	Village of L'Orignal *	S 0.168
	Town of Haileybury ***	S 0.35
	Town of Deep River	P 0.48
	Town of Rockland **	L 20-ac
Lake Superior	Township of Schreiber *	S 0.25
	Twp. of Marathon	P 0.25
St. Mary's River	City of Sault Ste. Marie **	P 12.0

TABLE II (iii) CONT'D

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
<u>INDIRECT DISCHARGES</u>		
Lake Huron		
Local Tributary	Town of Forest *	L 40-ac
	Township of Sarnia Bright's Grove *	L 21-ac (e)
Local Stream	Village of Zurich *	L 13-ac
Saugeen River	Town of Walkerton	S 1.0
	Town of Chesley **	L 17-ac
	Town of Southampton *	S 0.67
	Village of Mildmay *	L 15.5-ac
	Town of Hanover	S 0.8
	Village of Flesherton *	L 11.7-ac
	Village of Neustadt *	L 6.8-ac
	Village of Markdale **	L 14-ac
	Town of Port Elgin	S 0.72
	Town of Durham **	S 0.29
	Village of Paisley *	S 0.12
Bayfield River	Town of Clinton	S 0.25
	Town of Seaforth *	L 30-ac
Ausable River	Town of Exeter **	L 22-ac
	Village of Lucan *	L 11-ac

TABLE II (iii) CONT'D

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Lake Huron (cont'd)		
Maitland River	Town of Wingham **	L 30-ac
	Town of Palmerston *	S 0.25
	Town of Harriston **	L 28-ac
	Village of Milverton **	L 15-ac
Junction Creek	City of Sudbury	S 10.0
	Township of Neelon and Garson **	L 28.8-ac
Vermilion River	Town of Capreol	L 34-ac
	I.D. of Onaping	S 0.144
Coniston Creek	Town of Coniston **	S 0.26
Copper Cliff Creek	Town of Copper Cliff	S 1.5
Spanish River	Town of Espanola **	P 0.8
	Town of Massey *	L 9-ac
	Town of Webbwood *	L 10-ac
Onaping River	Town of Lively	S 0.29
Moose Creek	Town of Levack	S 0.32
McKenzie Creek	Township of Balfour Chelmsford	L 30-ac
Genesee Creek	Town of Powassan *	L 7-ac
Whitson River	Township of Rayside Azilda *	L 65-ac
	Twp. of Valley East ***	L 77.9-ac
Angel Lake	Twp. of Elliot Lake	P 1.0 S 0.487

TABLE II (iii) CONT'D

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Georgian Bay		
Coldwater River	Village of Coldwater *	S 0.1
Nottawasaga River	Village of Shelburne **	L 13.2-ac
Lemont Creek	Town of Stayner *	L 20-ac
Boyne River	Town of Alliston *	S 0.77
Beeton Creek	Village of Beeton *	L 15-ac
	Village of Tottenham	L 14-ac
Lake Nipissing	Town of Sturgeon Falls *	S 1.0
	Township of Caldwell P.V. of Verner *	L 14-ac
	North Himsworth and East Ferris Twps. *	L 20-ac
Magnetawan River	Village of Burk's Falls *	L 19-ac
Wye River	Village of Elmvale **	L 4.4-ac
South River	Village of South River *	S 0.12
Ottawa River	Town of Latchford *	S 0.07 (e)
	Township of Bucke North Cobalt *	L 10-ac
York River	Village of Bancroft **	P 0.05
Mississippi River	Town of Almonte *	L 45-ac
Muskrat River	Village of Cobden *	P 0.2
Castor River	Village of Winchester *	L 12-ac
Mattawa River	Town of Mattawa **	L 18-ac
Little Rideau Creek	Town of Vankleek Hill *	L 21-ac

TABLE II (iii) CONT'D.

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Ottawa River (cont'd)		
Azatika Brook	Village of Alfred *	L 36-ac
Chalk River	Village of Chalk River *	S 0.114
Bonnechere River	Village of Eganville *	S 0.168
South Nation River	Village of Casselman *	L 17-ac
	Village of Plantagenet *	L 15-ac
	Village of St. Isidore de Prescott *	L 30.6-ac
	Village of Chesterville *	L 14-ac
Mill Creek (Lake Timiskaming)	Town of Cobalt ***	S 0.3 (e)
Englehart River	Town of Englehart *	L 20-ac
Wabi River (Lake Timiskaming)	Town of New Liskeard **	L 43-ac
Evanturel Creek	Township of Armstrong Earlton	L 8-ac
Larder Lake	Township of Larder Lake Larder Lake Townsite	P 0.13
Lake Superior		
McIntyre River	City of Thunder Bay Port Arthur **	P 4.0
Kaministiquia River	Fort William **	P 6.0
	Township of Oliver Kakabeka Falls *	L 6-ac

TABLE II (iii) CONT'D

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Lake Superior (cont'd)		
Local Tributary	Township of Terrace Bay	L 5.5-ac
Kenogamisis Lake	Town of Geraldton *	S 0.33
Suicide River	Township of Longlac *	S 0.25
Nipigon River	Township of Nipigon	P 0.25
Black River	I.D. of Beardmore *	L 10-ac
Rudder Lake	I.D. of Manitouwadge	P 0.4
Lake St. George	Twp. of MacDonald, Meredith & Aberdeen Additional Echo Bay *	L 7-ac
Magpie River	Twp. of Michipicoten Wawa **	L 40-ac
Hudson's Bay		
Rainy River	Town of Fort Frances *	P 2.0
	Town of Rainy River *	P 0.2
	Township of Emo *	L 10-ac
Winnipeg River	Town of Kenora **	S 2.0
Wabicoon River	Town of Dryden	S 0.833
Rat Portage Bay	Town of Keewatin *	S 0.1
Pelican Lake	Town of Sioux Lookout *	S 0.375
Agimac Creek	Township of Ignace *	An.L 0.12
Atikokan River	Township of Atikokan	ST 0.6

TABLE II (iii) CONT'D

RECEIVING WATER	MUNICIPALITY	W.P.C.P. DESIGN CAPACITY (mgd)
Hudson's Bay (cont'd)		
English River	I.D. of Ear Falls *	S 0.20
Red Lake	I.D. of Balmertown	P 0.18
Howey Bay	Township of Red Lake *	S 0.3
Lillasella Lake	Town of Cochrane	S 0.6
Mattawishkwia River	Town of Hearst *	L 72-ac
Kapuskasing River	Town of Kapuskasing	
	Municipal * Brunetville	S 1.0 L 40-ac
Mattagami River	Town of Smooth Rock Falls *	L 14-ac
	Town of Timmins **	P 3.0
	Township of Tisdale *	S 0.36
	Townships of Tisdale- Whitney *	L 61-ac
	Township of Chapleau	P 0.4
Black River	Township of Black River- Matheson *	L 12-ac
	Township of Playfair Ramore	L 2.75-ac
Abitibi River	Township of Calvert *	S 0.9
Ground Hog River	Township of Fauquier ** Moonbeam	L 6-ac
	Twp. of Shackleton and Machin * Fauquier	L 10-ac

Date Due

Ontario Water Resources Commission. Division of Sanitary Engineering. <i>MOE/IMP/AQTU</i> An implementation program for the installating of phosphorus removal facilities at municipal and institutional sewage...	
DATE	ISSUED TO
<i>Apr. 15/75</i>	<i>J. Robinson L+T.</i>
<i>June 2/75</i>	<i>J. Robinson L+T.</i>
<i>June 27</i>	<i>J. Robinson L+T.</i>

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